## PATENT COOPERATION TREATY

REC'D 11 APR 2005
WIPO PCT

From the		
INTERNATIONAL	. SEARCHING	AUTHORITY

To:

PCT

04/08

see form PCT/ISA/220

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

See paragraph 2 below

International application No. PCT/NL2005/000057

International filing date (day/month/year) 26.01.2005

Priority date (day/month/year)

26.01.2004

International Patent Classification (IPC) or both national classification and IPC A23L1/03, A23L1/0522, A23L1/00, A23D7/015, A23C9/154, A23L1/187

**Applicant** 

WAGENINGEN CENTRE FOR FOOD SCIENCES

1. Th	is opinion	contains	indications	relating 1	to the	following	items:
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☐ Box No. II Priority

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

☐ Box No. IV Lack of unity of invention

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial

applicability; citations and explanations supporting such statement

☐ Box No. VI Certain documents cited

Box No. VII Certain defects in the international application

Box No. VIII Certain observations on the international application

#### 2. FURTHER ACTION

If a demand for International preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:

**Authorized Officer** 

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European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 Telephone No. +49 89 2399-

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# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/NL2005/000057

	Box N	lo. I	Basis of the opinion
1.	With re	egarc nguag	I to the language, this opinion has been established on the basis of the international application in ge in which it was filed, unless otherwise indicated under this item.
	la	ingua	pinion has been established on the basis of a translation from the original language into the following ge , which is the language of a translation furnished for the purposes of international search Rules 12.3 and 23.1(b)).
2.	With reneces	egard sary	to any nucleotide and/or amino acid sequence disclosed in the international application and to the claimed invention, this opinion has been established on the basis of:
	a. type	e of n	naterial:
		a s	equence listing
		tab	le(s) related to the sequence listing
	b. forr	mat o	f material:
		in v	vritten format
		in c	computer readable form
	c. time	e of fi	ling/furnishing:
		· cor	ntained in the international application as filed.
		file	d together with the international application in computer readable form.
		fur	nished subsequently to this Authority for the purposes of search.
3.	h C	as be	lition, in the case that more than one version or copy of a sequence listing and/or table relating thereto sen filed or furnished, the required statements that the information in the subsequent or additional is is identical to that in the application as filed or does not go beyond the application as filed, as priate, were furnished.

4. Additional comments:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-10, 14

No: Claims

11,13,15

Inventive step (IS)

Yes: Claims

1-10, 14

No: Claims

11, 13, 15

Industrial applicability (IA)

Yes: Claims

1-18

No: Claims

2. Citations and explanations

see separate sheet

### Re Item V.

- 1. The following documents are referred to in this communication; the numbering will be adhered to in the rest of the procedure:
  - D1: ENGELEN LINA ET AL: "A comparison of the effects of added saliva, alphaamylase and water on texture perception in semisolids." PHYSIOLOGY AND BEHAVIOR, vol. 78, no. 4-5, April 2003 (2003-04), pages 805-811, XP002288968 ISSN: 0031-9384
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  - D4: US-A-4 609 554 (HAMPTON RICHARD J ET AL) 2 September 1986 (1986-09-02)
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  - D6: EP-A-1 210 880 (SAN EI GEN FFI INC) 5 June 2002 (2002-06-05)
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  - D8: WO 02/49443 A (UNILEVER PLC; LEVER HINDUSTAN LTD (IN); UNILEVER NV (NL); PELAN EDWAR) 27 June 2002 (2002-06-27)

Please consult the citations of relevant passages as given in the search report.

- 2. The subject-matter of claim 1 and 14 is novel (Art. 33 (2) PCT) and inventive (Art. 33(3) PCT) in view of the prior art available.
- 3. Claims 11, 13 and 15 are not novel. Semi solid food products comprising modified starch or a starch and either a monosaccharide, a monoglyceride or an acidifying compound are known in the art.

  For example D3 discloses a yoghurt-like dessert composition comprising modified tapioca starch and citric acid the reconstituted dessert mix has a pH of 3-5.

  D4 discloses a yoghurt with a pH of 4-4.5 comprising modified starch and citric acid.

# International application No.

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

PCT/NL2005/000057

Resistant starch tends to be less susceptible to enzymatic breakdown compared to native starch.

Clearly a yoghurt-like product with a pH below 6.3 will have an improved sensory rating over one that has not been acidified (an acid taste is expected of such a yoghurt-like product).

Also, a dessert (cf. D5, D6) comprising starch and glucose will have an improved sensory rating over one that does not contain glucose.

The effect of reducing the starch structure breakdown induced by salivary amylase by the glucose or an acidifying product are not explicitly mentioned in the prior art, will however be inherent.

It appears that the amount of glucose sufficient to arrive at the amylase inhibiting effect does not a priori differ from the conventionally used amounts of glucose. D7(cf. claim 8) discloses a sugar syrup (i.e. a semi-solid food product) comprising hydroxypropylated polysaccharides (i.e. starch) and hydrolyzed hydroxypropylated starch. The intention is to provide a product for substituting ordinary sugars where it is desired to limit digestion by salivary amylases in the mouth or for substituting artificial sweeteners with a more acceptable sugar product.

4. A positive preliminary examination report for the dependent claims 12 and 16-18 can not be established, since the requirements of the PCT concerning novelty and inventive step for the independent claims are not complied with. The applicant is however made aware that these dependent claims do not appear to contain any additional subject-matter that could be considered new.

## PATENT COOPERATION TREATY

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see form PCT/ISA/2	20	INTERNATION	NAL SEA	e 43 <i>bis</i> .1)	JTHORITY
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER See paragraph 2 belo			
International application No. PCT/NL2005/000057	International filing date 26.01.2005	(day/month/year)	Priority da 26.01.2	ate <i>(day/month/year)</i> 004	
International Patent Classification (IP A23L1/03, A23L1/0522, A23L	•				
Applicant WAGENINGEN CENTRE FO	R FOOD SCIENCES				
Box No. I Basis of to Box No. II Priority  Box No. III Non-esta  Box No. IV Lack of u  Box No. V Reasone applicabi  Box No. VI Certain d  Box No. VII Certain d  Box No. VIII Certain of Box No. VIII	the opinion  blishment of opinion with resolution in the following of invention and explanation is detected in the international appropriations on the international appropriations on the internation is all preliminary examination is	gard to novelty, inventions. 1 (a) (i) with regard to no supporting such state oplication on all application on all applications.	novelty, in tement	e considered to be	dustrial
written opinion of the International Bureau under will not be so considered.  If this opinion is, as provide submit to the IPEA a writte months from the date of months whichever expires later.  For further options, see Fo	national Preliminary Examinated Authority other than this one Rule 66.1 bis(b) that writtened above, considered to be an reply together, where appailing of Form PCT/ISA/220.	ing Authority ("IPEA"). to be the IPEA and the opinions of this Intem a written opinion of the ropriate, with amendm	However, the chosen IP ational Sea	his does not apply EA has notifed the rehing Authority applicant is invited the expiration of	y where e d to three
3. For further details, see not	es to Form PC1/ISA/220.		•		

Name and mailing address of the ISA:

Authorized Officer

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Telephone No. +49 89 2399-



# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/NL2005/000057

	Box N	o. I Basis of the opinion
1.	With re	egard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
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	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
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